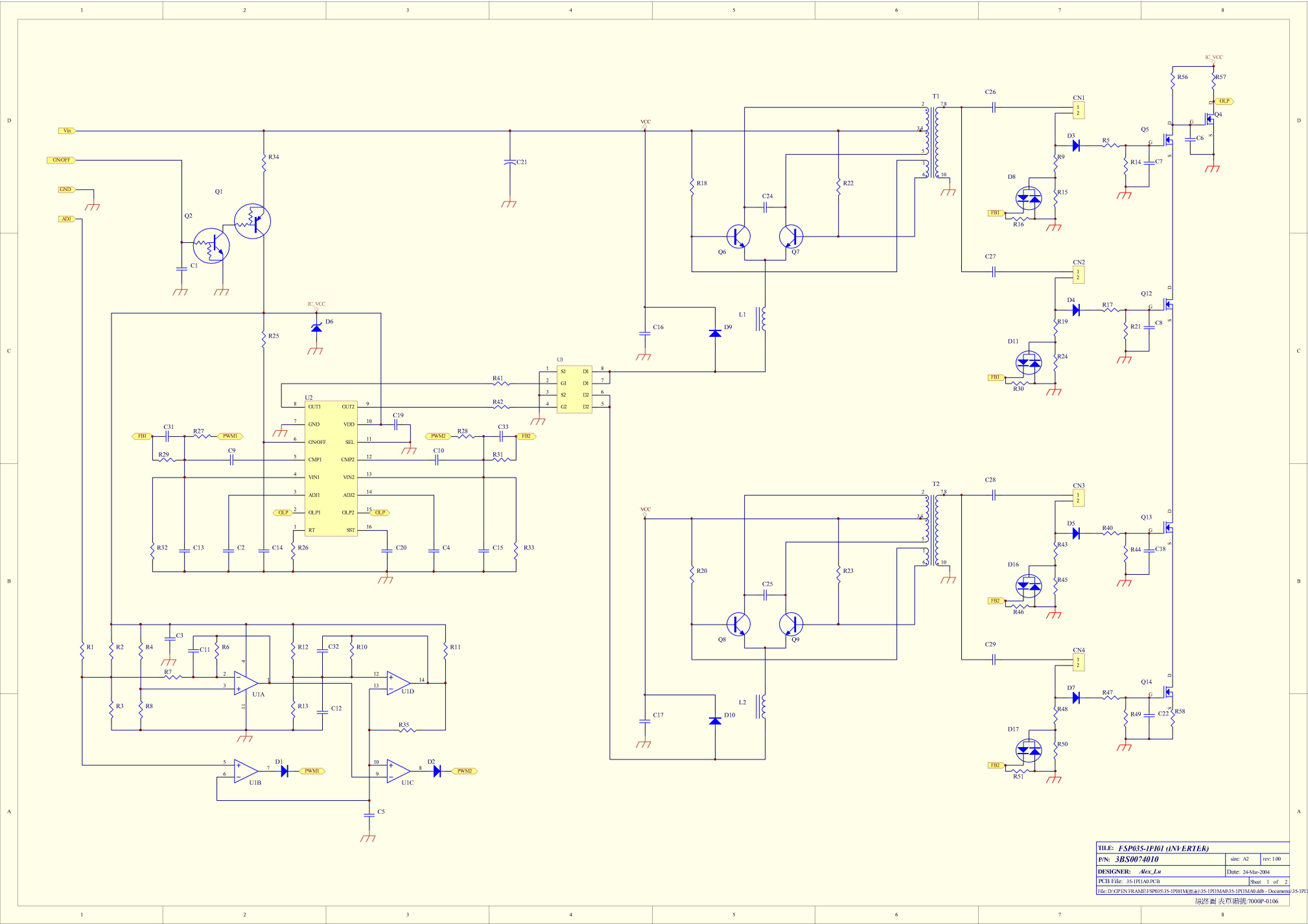
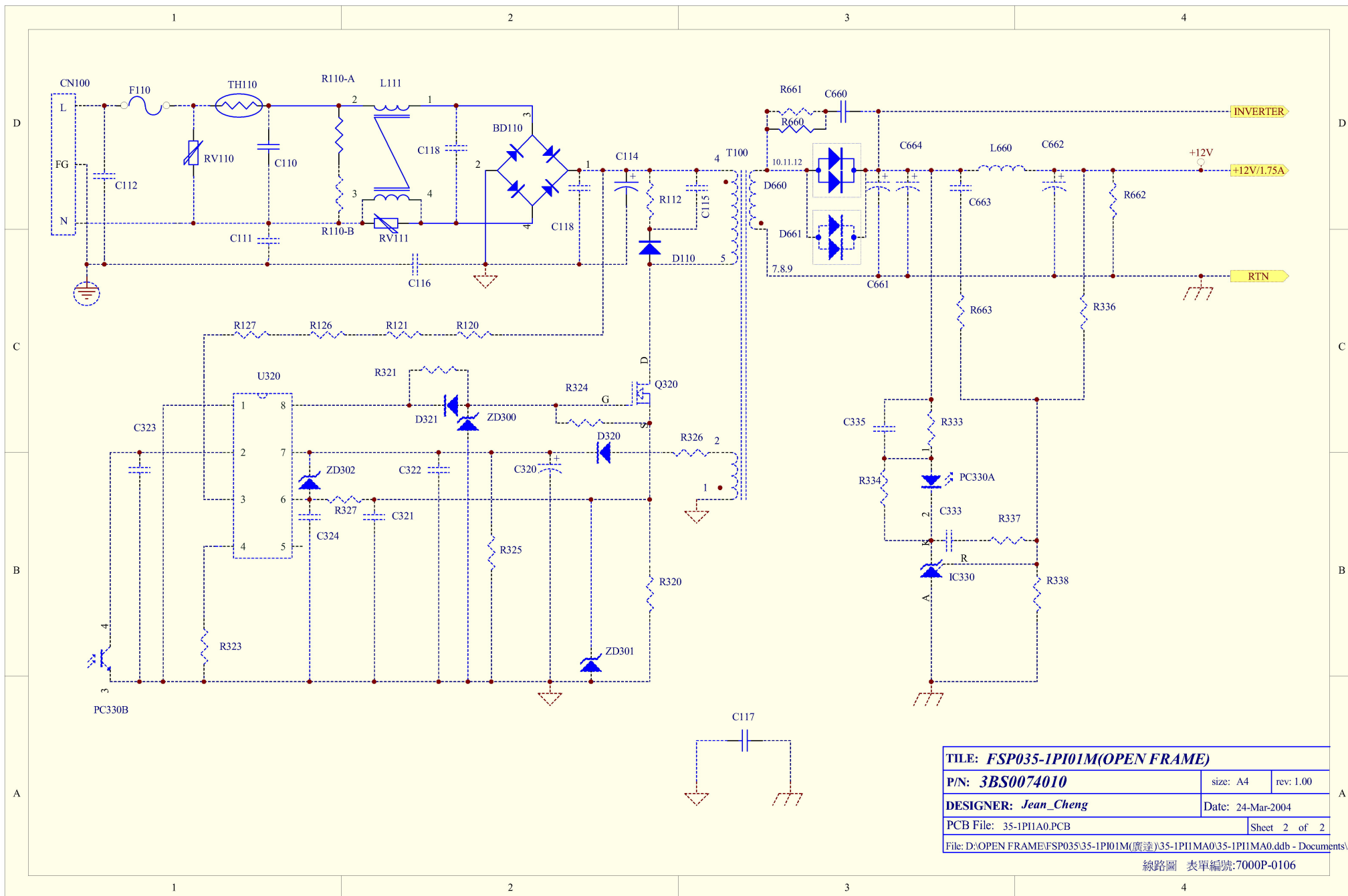


10. SCHEMATIC DIAGRAM POWER DB



FILE: FSP035-IP01 (INVERTER)	
P/N: 3BS0074010	size: A2 rev: 1.00
DESIGNER: Alex Lu	Date: 24-Mar-2004
PCB File: 35-IP01.M0.PCB	Sheet 1 of 2
File: D:\OPIN\FRAM\FSPO35-IP01\M0\35-IP01\M0\35-IP01\M0.d0b - Document\35-IP01	
圖路圖 表型編號: 7000P-0106	



Power / Inverter BD

Item	Description	Unit	Qty	Location	Maker
1001	DIODE, BRIDGE, 2A, 600V, GLASS, KBP205G, T.S	PCS	1	BD110,;	T.S
1001-A	DIODE, BRIDGE, 2A, 600V, GLASS, KBP206G, LITEON	PCS			LITEON
1001-B	DIODE, BRIDGE, 2A, 600V, GLASS, 2KBP06M, PAN JIT	PCS			PAN JIT
1002	DIODE, FAST, 1A, 600V, DO-41, 1N4937, T.S	PCS	1	D320,;	T.S
1002-A	DIODE, FAST, 1A, 600V, DO-41, 1N4937, LITEON	PCS			LITEON
1002-B	DIODE, FAST, 1A, 600V, DO-204AL, 1N4937, GS	PCS			GS
1003	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, MBR10100CT, LITEON	PCS	2	D660, D661,;	LITEON
1003-A	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, STPS10H100CT, STM	PCS			STM
1003-B	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, GMR10H100C, GAMMA	PCS			GAMMA
1004	DIODE, ULTRAFAST, 1A, 1000V, DO-15, BYV26EGP, GS	PCS	1	D110,;	GS
1004-A	DIODE, ULTRAFAST, 1A, 1000V, SOD-57, BYV26E, PHILIPS	PCS			PHILIPS
1004-B	DIODE, ULTRAFAST, 1A, 1000V, DO-15, 1NU41, TOSHIBA	PCS			TOSHIBA
1005	IC, PWM CONTROLLER, DIP-16P, B13101A-DP, BITEK	PCS	1	U2,;	BITEK
1006	IC, VOLT REGULATOR, TO-92, -0.8%, AZ431BZ-A, AAC	PCS	1	IC330,;	AAC
1006-A	IC, VOLT REGULATOR, TO-92, 1%, KIA431A, KEC	PCS			KEC
1006-B	IC, VOLT REGULATOR, TO-92, 1%, CM431, CHAMPION	PCS			CHAMPION
1006-C	IC, VOLT REGULATOR, TO-92, ~1%, AP431, ATC	PCS			ATC
1007	IC, OPTO COUPLER, CTR 130-260, DIP-4P(10.16mm), LTV817BM, LITEON	PCS	1	PC330,;	LITEON
1007-A	IC, OPTO COUPLER, CTR 130-260, DIP-4P(10.16mm), PS2561L1-1-VW, NEC	PCS			NEC
1008	TR, N MOSFET, 2.5A, 650V, TO-220F, CEF04N6, CET	PCS	1	Q320,;	CET
1009	DIODE, ZENER, 23.6-24.7V, 500mW, DO-35, TZX24B, TEMIC	PCS	1	ZD302,;	TEMIC
1009-A	DIODE, ZENER, 23.6-24.7V, 0.5W, DO-35, HZ24-2TA, HITACHI	PCS			HITACHI
1009-B	DIODE, ZENER, 23.6-24.7V, 500mW, DO-35, TZX24B, VISHAY	PCS			VISHAY
1010	DIODE, ZENER, SMD, 7.7-8.7V, 0.5W, SOD-80, BVZ55C8V2, PHILIPS	PCS	1	D6,;	PHILIPS
1010-A	DIODE, ZENER, SMD, 7.7-8.7V, 0.5W, SOD-80, TZMC8V2, VISHAY	PCS			VISHAY
1011	DIODE, FAST, 0.15A, 75V, SOD-23, SMD, BAV99, PAN JIT	PCS	4	D11, D16, D17, D8,;	PAN JIT
1011-A	DIODE, FAST, 0.215A, 75V, BAV99, SOT-23, SMD, PHILIPS	PCS			PHILIPS
1011-B	DIODE, FAST, 0.215A, 70V, SOT-23, SMD, BAV99LT1, MOTOROLA	PCS			MOTOROLA
1011-C	DIODE, FAST, 0.25A, 70V, SOT-23, SMD, BAV99, TEMIC	PCS			TEMIC
1012	DIODE, SWITCH, 0.2A, 100V, LL-34, SMD, RL54148N, ROHM	PCS	6	D1, D2, D3, D4, D5, D7,;	ROHM
1012-A	DIODE, SWITCH, 0.2A, 100V, SOD-80, SMD, LL4148, TEMIC	PCS			TEMIC
1012-B	DIODE, SWITCH, 0.2A, 100V, SOD-80, SMD, LL4148, PAN JIT	PCS			PAN JIT
1013	DIODE, SCHOTTKY, 2A, 40V, DO-214AC, SMD, SR24, PAN JIT	PCS	2	D10, D9,;	PAN JIT
1013-A	DIODE, SCHOTTKY, 2A, 40V, SMD, RB060L-40/TE-25, ROHM	PCS			ROHM
1013-B	DIODE, SCHOTTKY, 2A, 40V, SMA/DO-214AC, SS24, T.S	PCS			T.S
1013-C	DIODE, SCHOTTKY, 2A, 40V, B240 SMB, LITEON	PCS			LITEON
1013-D	DIODE, SCHOTTKY, 2A, 40V, DO-214AA, SMB240, FCI	PCS			FCI
1014	IC, OP AMPLIFIER, SMD, SO-14, LM324, STM	PCS	1	U1,;	STM
1015	IC, PWM CONTROLLER, SMD, SO-8, SG6841, SYSTEM GENERAL	PCS	1	U320,;	SYSTEM GEN
1016	TR, PNP, 0.1A, 50V, SOT-23, SMD, MMUN2132LT1, MOTOROLA	PCS	1	Q1,;	MOTOROLA
1016-A	TR, PNP, 0.1A, 50V, UMT3(SC-70), SMD, DTA143EU, ROHM	PCS			ROHM
1016-B	TR, PNP, 0.1A, 50V, SOT-23, SMD, KSR2104, FAIRCHILD	PCS			FAIRCHILD
1017	TR, NPN, 2A, 50V, MPT3(SOT-89), SMD, 2SC4672, ROHM	PCS	4	Q6, Q7, Q8, Q9,;	ROHM
1018	TR, NPN, 0.1A, 50V, SOT-23, MMUN2232T1, MOTOROLA	PCS	1	Q2,;	MOTOROLA
1018-A	TR, NPN, 0.1A, 50V, SOT-23, KSR1103, FAIRCHILD	PCS			FAIRCHILD
1018-B	TR, NPN, 0.1A, 50V, SOT-23, PDC124ET, PHILIPS	PCS			PHILIPS
1018-C	TR, NPN, 0.1A, 50V, UMT3(SC-70), SMD, DTC143EU, ROHM	PCS			ROHM
1019	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, RK7002, ROHM	PCS	5	Q12, Q13, Q14, Q4, Q5,;	ROHM
1019-A	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002, VISHAY	PCS			VISHAY
1019-B	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002, PAN JIT	PCS			PAN JIT
1019-C	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002LT1, ON	PCS			ON
1019-D	TR, N-MOSFET, 0.3A, 60V, SOT-23, SMD, 2N7002K, VISHAY	PCS			VISHAY
1020	TR, N-MOSFET, 6.9A, 30V, SOIC-8, SMD, AO4812, ALPHA&OMEGA	PCS	1	U3,;	ALPHA&OMEG
2001	CAP, CD, 102, K, 1KV, Y5P, CD106B102K1KV, 5S520, CHYUN FUH	PCS	2	C115, C660,;	CHYUN FUH
2001-A	CAP, CD, 102, K, 1KV, Y5P, HI-K2, (G,P), 2Y5P102K102S56, SEC	PCS			SEC
2001-B	CAP, CD, 102, K, 1KV, 9*5, CK45-R3AD102K-PR, TDK	PCS			TDK
2002	CAP, CD, 22P, J, 3KV, Y5P, 8.5*5, CC45SL3FD220JPN, TDK	PCS	4	C26, C27, C28, C29,;	TDK
2002-A	CAP, CD, 22P, J, 3KV, 5*7.5, DEA1X3F220JP3A, MURATA	PCS			MURATA
2003	CAP, CD, 103, M, 500V, Z5U, 10.5*5,;	PCS	1	C118,;	
2004	CAP, X2, 334, K, 275V, BOX, 18L*8.5T*16.5H*15F, L=28, (G,P), HQX334K275I28S, UTX	PCS	1	C110,;	UTX
2004-A	CAP, X2, 334, K, 275V, BOX, 18L*9.5T*16H*15F, L, KNB1560-L25, ISKRA	PCS			ISKRA
2005	CAP, Y1, 222, M, 250V, CD, 12.5*10, L=25, (G,P), AH12E22M1, PAN OVERSEA	PCS	1	C117,;	PAN OVERS
2005-A	CAP, Y1, 222, M, 250V, CD, 11.5*10, 25mm, CD12-E2GA222MYAS, TDK	PCS			TDK
2005-B	CAP, Y1, 222, M, 250V, CD, 11*10, L=20, 5SE222MT402A97, SEC	PCS			SEC
2006	CAP, Y1, 102, M, 250V, CD, 7*10, L=25, DE1E3KX102MA4BL01, MURATA	PCS	2	C111, C112,;	MURATA
2006-A	CAP, Y1, 102, M, 250V, CDAH09E102M, PANOVERSEAS	PCS			PANOVERSEA
2007	CAP, Y1, 471, K, 250V, CD, 9.5*10, L=25, AH09B471K, PAN OVERSEAS	PCS	1	C116,;	PAN OVERSE
2007-A	CAP, Y1, 471, K, 250V, CD, 11*10, L=20, ECKANA471KB, NS-A, MATSUSHITA	PCS			MATSUSHITA
2007-B	CAP, Y1, 471, K, 250V, CD, 9.5*10, L=20, 5SB471K, T402A97, SEC	PCS			SEC
2008	CAP, AL, 100uF, 400V, 105°C, M, 18*31.5, PIN=15, KM101M400K315, CAPXON	PCS	1	C114,;	CAPXON
2008-A	CAP, AL, 100uF, 400V, 105°C, M, 18*30, PIN=15 MIN, AXW, RUBYCON	PCS			RUBYCON
2008-B	CAP, AL, 100uF, 400V, 105°C, M, 18*31.5, PIN=15 MIN, KMG400VB100, N.C.C	PCS			N.C.C
2008-C	CAP, AL, 100uF, 400V, 105°C, M, 18*32, PIN=15mm MIN, SH400M0100, TEAPO	PCS			TEAPO
2009	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, TAPING, KF100M050C110, CAPXON	PCS	1	C320,;	CAPXON
2009-A	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, TAPING, YXF, RUBYCON ; & N.C.C, KME	PCS			RUBYCON ; N.C.C
2009-B	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, RLS, OST	PCS			OST
2010	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, PIN=15, KF471M025G160, CAPXON	PCS	2	C661, C664,;	CAPXON
2010-A	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, YXG, RUBYCON	PCS			RUBYCON
2010-B	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, RLS, OST	PCS			OST
2011	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, PIN=15, 7000HOURS, HW, TAICON	PCS	1	C662, C661, C664,;	TAICON
2012	CAP, AL, LOW ESR, 330uF, 35V, 105°C, M, 10*16, PIN=15, KF331M035G160, CAPXON	PCS	1	C21,;	CAPXON
2012-A	CAP, AL, LOW ESR, 330uF, 35V, 105°C, M, 10*16, YXG, (RUBYCON)	PCS			(RUBYCON)
2013	THERMISTOR, 2.5 ohm, 5A, 11.5*7.5, KINK, (G,P), SCK-2R55AMIQ4.0, THIKING	PCS	1	TH110,;	THIKING
2014	CAP, POLYPROPYLENE, 154, 1250V, 13L*6.5T*12H*10F, MPP-154J0250DB110, HJC	PCS		C24, C25,;	HJC
2014-A	CAP, POLYESTER, 0.15uF, K, 160V, 13L*4T*9H*10F, BOX, R75GF3150, ARCO	PCS			ARCO
2015	RES, M, OX, 0.51 ohm, 2W, J, S-SIZE, SERIES	PCS	1	R320,;	
2016	RES, M, OX, 33K ohm, 2W, J, S-SIZE,;	PCS	1	R112,;	
2017	RES, M, F, 78.2K ohm, 1/4W, F,;	PCS	1	R336,;	
2018	RES, M, OX, 1.5K ohm, 1W, J, S-SIZE,;	PCS	4	R18, R20, R22, R23,;	
2019	CAP, SMD, 0805, 103P, K, 50V, X7R,;	PCS	6	C10, C14, C16, C17, C32, C9,;	
2020	CAP, SMD, 0805, 102, K, 50V, X7R,;	PCS	2	C12, C333,;	
2021	CAP, SMD, 0805, 104, K, 50V, X7R,;	PCS	13	C1, C11, C13, C15, C18, C2, C22, C321, C322, C4, C6, C7, C8,;	
2022	CAP, SMD, 0805, 471, K, 50V, X7R,;	PCS		C324,;	
2023	CAP, SMD, 0805, 472, K, 50V, X7R,;	PCS	1	C663,;	
2024	CAP, SMD, 0805, 105, K, 16V, X7R,;	PCS	3	C19, C20, C3,;	
2025	CAP, SMD, 0805, 271, K, 50V, X7R,;	PCS	2	C31, C33,;	

Power / Inverter BD

Item	Description	Unit	Qty	Location	Maker
1001	DIODE, BRIDGE, 2A, 600V, GLASS, KBP205G, T.S	PCS	1	BD110,;	T.S
1001-A	DIODE, BRIDGE, 2A, 600V, GLASS, KBP206G, LITEON	PCS			LITEON
1001-B	DIODE, BRIDGE, 2A, 600V, GLASS, 2KBP06M, PAN JIT	PCS			PAN JIT
1002	DIODE, FAST, 1A, 600V, DO-41, 1N4937, T.S	PCS	1	D320,;	T.S
1002-A	DIODE, FAST, 1A, 600V, DO-41, 1N4937, LITEON	PCS			LITEON
1002-B	DIODE, FAST, 1A, 600V, DO-204AL, 1N4937, GS	PCS			GS
1003	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, MBR10100CT, LITEON	PCS	2	D660, D661,;	LITEON
1003-A	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, STPS10H100CT, STM	PCS			STM
1003-B	DIODE, SCHOTTKY, 10A, 100V, TO-220AB, GMR10H100C, GAMMA	PCS			GAMMA
1004	DIODE, ULTRAFAST, 1A, 1000V, DO-15, BYV26EGP, GS	PCS	1	D110,;	GS
1004-A	DIODE, ULTRAFAST, 1A, 1000V, SOD-57, BYV26E, PHILIPS	PCS			PHILIPS
1004-B	DIODE, ULTRAFAST, 1A, 1000V, DO-15, 1NU41, TOSHIBA	PCS			TOSHIBA
1005	IC, PWM CONTROLLER, DIP-16P, B13101A-DP, BITEK	PCS	1	U2,;	BITEK
1006	IC, VOLT REGULATOR, TO-92, -0.8%, AZ431BZ-A, AAC	PCS	1	IC330,;	AAC
1006-A	IC, VOLT REGULATOR, TO-92, 1%, KIA431A, KEC	PCS			KEC
1006-B	IC, VOLT REGULATOR, TO-92, 1%, CM431, CHAMPION	PCS			CHAMPION
1006-C	IC, VOLT REGULATOR, TO-92, ~1%, AP431, ATC	PCS			ATC
1007	IC, OPTO COUPLER, CTR 130-260, DIP-4P(10.16mm), LTV817BM, LITEON	PCS	1	PC330,;	LITEON
1007-A	IC, OPTO COUPLER, CTR 130-260, DIP-4P(10.16mm), PS2561L1-1-VW, NEC	PCS			NEC
1008	TR, N MOSFET, 2.5A, 650V, TO-220F, CEF04N6, CET	PCS	1	Q320,;	CET
1009	DIODE, ZENER, 23.6-24.7V, 500mW, DO-35, TZX24B, TEMIC	PCS	1	ZD302,;	TEMIC
1009-A	DIODE, ZENER, 23.6-24.7V, 0.5W, DO-35, HZ24-2TA, HITACHI	PCS			HITACHI
1009-B	DIODE, ZENER, 23.6-24.7V, 500mW, DO-35, TZX24B, VISHAY	PCS			VISHAY
1010	DIODE, ZENER, SMD, 7.7-8.7V, 0.5W, SOD-80, BVZ55C8V2, PHILIPS	PCS	1	D6,;	PHILIPS
1010-A	DIODE, ZENER, SMD, 7.7-8.7V, 0.5W, SOD-80, TZMC8V2, VISHAY	PCS			VISHAY
1011	DIODE, FAST, 0.15A, 75V, SOD-23, SMD, BAV99, PAN JIT	PCS	4	D11, D16, D17, D8,;	PAN JIT
1011-A	DIODE, FAST, 0.215A, 75V, BAV99, SOT-23, SMD, PHILIPS	PCS			PHILIPS
1011-B	DIODE, FAST, 0.215A, 70V, SOT-23, SMD, BAV99LT1, MOTOROLA	PCS			MOTOROLA
1011-C	DIODE, FAST, 0.25A, 70V, SOT-23, SMD, BAV99, TEMIC	PCS			TEMIC
1012	DIODE, SWITCH, 0.2A, 100V, LL-34, SMD, RL54148N, ROHM	PCS	6	D1, D2, D3, D4, D5, D7,;	ROHM
1012-A	DIODE, SWITCH, 0.2A, 100V, SOD-80, SMD, LL4148, TEMIC	PCS			TEMIC
1012-B	DIODE, SWITCH, 0.2A, 100V, SOD-80, SMD, LL4148, PAN JIT	PCS			PAN JIT
1013	DIODE, SCHOTTKY, 2A, 40V, DO-214AC, SMD, SR24, PAN JIT	PCS	2	D10, D9,;	PAN JIT
1013-A	DIODE, SCHOTTKY, 2A, 40V, SMD, RB060L-40/TE-25, ROHM	PCS			ROHM
1013-B	DIODE, SCHOTTKY, 2A, 40V, SMA/DO-214AC, SS24, T.S	PCS			T.S
1013-C	DIODE, SCHOTTKY, 2A, 40V, B240 SMB, LITEON	PCS			LITEON
1013-D	DIODE, SCHOTTKY, 2A, 40V, DO-214AA, SMB240, FCI	PCS			FCI
1014	IC, OP AMPLIFIER, SMD, SO-14, LM324, STM	PCS	1	U1,;	STM
1015	IC, PWM CONTROLLER, SMD, SO-8, SG6841S, SYSTEM GENERAL	PCS	1	U320,;	SYSTEM GEN
1016	TR, PNP, 0.1A, 50V, SOT-23, SMD, MMUN2132LT1, MOTOROLA	PCS	1	Q1,;	MOTOROLA
1016-A	TR, PNP, 0.1A, 50V, UMT3(SC-70), SMD, DTA143EU, ROHM	PCS			ROHM
1016-B	TR, PNP, 0.1A, 50V, SOT-23, SMD, KSR2104, FAIRCHILD	PCS			FAIRCHILD
1017	TR, NPN, 2A, 50V, MPT3(SOT-89), SMD, 2SC4672, ROHM	PCS	4	Q6, Q7, Q8, Q9,;	ROHM
1018	TR, NPN, 0.1A, 50V, SOT-23, MMUN2232T1, MOTOROLA	PCS	1	Q2,;	MOTOROLA
1018-A	TR, NPN, 0.1A, 50V, SOT-23, KSR1103, FAIRCHILD	PCS			FAIRCHILD
1018-B	TR, NPN, 0.1A, 50V, SOT-23, PDC124ET, PHILIPS	PCS			PHILIPS
1018-C	TR, NPN, 0.1A, 50V, UMT3(SC-70), SMD, DTC143EU, ROHM	PCS			ROHM
1019	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, RK7002, ROHM	PCS	5	Q12, Q13, Q14, Q4, Q5,;	ROHM
1019-A	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002, VISHAY	PCS			VISHAY
1019-B	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002, PAN JIT	PCS			PAN JIT
1019-C	TR, N-MOSFET, 0.115A, 60V, SOT-23, SMD, 2N7002LT1, ON	PCS			ON
1019-D	TR, N-MOSFET, 0.3A, 60V, SOT-23, SMD, 2N7002K, VISHAY	PCS			VISHAY
1020	TR, N-MOSFET, 6.9A, 30V, SOIC-8, SMD, AO4812, ALPHA&OMEGA	PCS	1	U3,;	ALPHA&OMEG
2001	CAP, CD, 102, K, 1KV, Y5P, CD106B102K1KV, 5S520, CHYUN FUH	PCS	2	C115, C660,;	CHYUN FUH
2001-A	CAP, CD, 102, K, 1KV, Y5P, HI-K2, (G,P), 2Y5P102K102S56, SEC	PCS			SEC
2001-B	CAP, CD, 102, K, 1KV, Y5P, CK45-R3AD102K-PR, TDK	PCS			TDK
2002	CAP, CD, 22P, J, 3KV, Y5P, 8.5*5, CC45SL3FD220JPN, TDK	PCS	4	C26, C27, C28, C29,;	TDK
2002-A	CAP, CD, 22P, J, 3KV, Y5P, 7.5, DEA1X3F220JP3A, MURATA	PCS			MURATA
2003	CAP, CD, 103, M, 500V, Z5U, 10.5*5,;	PCS	1	C118,;	
2004	CAP, X2, 334, K, 275V, BOX, 18L*8.5T*16.5H*15F, L=28, (G,P), HQX334K275I28S, UTX	PCS	1	C110,;	UTX
2004-A	CAP, X2, 334, K, 275V, BOX, 18L*9.5T*16H*15F, L, KNB1560-L25, ISKRA	PCS			ISKRA
2005	CAP, Y1, 222, M, 250V, CD, 12.5*10, L=25, (G,P), AH12E22M1, PAN OVERSEA	PCS	1	C117,;	PAN OVERS
2005-A	CAP, Y1, 222, M, 250V, CD, 11.5*10, 25mm, CD12-E2GA222MYAS, TDK	PCS			TDK
2005-B	CAP, Y1, 222, M, 250V, CD, 11*10, L=20, S5E222MT402A97, SEC	PCS			SEC
2006	CAP, Y1, 102, M, 250V, CD, 7*10, L=25, DE1E3KX102MA4BL01, MURATA	PCS	2	C111, C112,;	MURATA
2006-A	CAP, Y1, 102, M, 250V, CDAH09E102M, PANOVERSEAS	PCS			PANOVERSEA
2007	CAP, Y1, 471, K, 250V, CD, 9.5*10, L=25, AH09B471K, PAN OVERSEAS	PCS	1	C116,;	PAN OVERSE
2007-A	CAP, Y1, 471, K, 250V, CD, 11*10, L=20, ECKANA471KB, NS-A, MATSUSHITA	PCS			MATSUSHITA
2007-B	CAP, Y1, 471, K, 250V, CD, 9.5*10, L=20, SSB471K1402A97, SEC	PCS			SEC
2008	CAP, AL, 100uF, 400V, 105°C, M, 18*31.5, PIN=15, KM101M400K315, CAPXON	PCS	1	C114,;	CAPXON
2008-A	CAP, AL, 100uF, 400V, 105°C, M, 18*30, PIN=15 MIN, AXW, RUBYCON	PCS			RUBYCON
2008-B	CAP, AL, 100uF, 400V, 105°C, M, 18*31.5, PIN=15 MIN, KMG400VB100, N.C.C	PCS			N.C.C
2008-C	CAP, AL, 100uF, 400V, 105°C, M, 18*32, PIN=15mm MIN, SH400M0100, TEAPO	PCS			TEAPO
2009	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, TAPING, KF100M050C110, CAPXON	PCS	1	C320,;	CAPXON
2009-A	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, TAPING, YXF, RUBYCON ; & N.C.C, KME	PCS			RUBYCON ; N.C.C
2009-B	CAP, AL, LOW ESR, 10uF, 50V, 105°C, M, 5*11, RLS, OST	PCS			OST
2010	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, PIN=15, KF471M025G160, CAPXON	PCS	2	C661, C664,;	CAPXON
2010-A	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, YXG, RUBYCON	PCS			RUBYCON
2010-B	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, RLS, OST	PCS			OST
2011	CAP, AL, LOW ESR, 470uF, 25V, 105°C, M, 10*16, PIN=15, 7000HOURS, HW, TAICON	PCS	1	C662, C661, C664,;	TAICON
2012	CAP, AL, LOW ESR, 330uF, 35V, 105°C, M, 10*16, PIN=15, KF331M035G160, CAPXON	PCS	1	C21,;	CAPXON
2012-A	CAP, AL, LOW ESR, 330uF, 35V, 105°C, M, 10*16, YXG, (RUBYCON)	PCS			(RUBYCON)
2013	THERMISTOR, 2.5 ohm, 5A, 11.5*7.5, KINK, (G,P), SCK-2R55AMIQ4.0, THIKING	PCS	1	TH110,;	THIKING
2014	CAP, POLYPROPYLENE, 154, 1250V, 13L*6.5T*12H*10F, MPP-154J0250DB110, HJC	PCS		C24, C25,;	HJC
2014-A	CAP, POLYESTER, 0.15uF, K, 160V, 13L*4T*9H*10F, BOX, R75GF3150, ARCO	PCS			ARCO
2015	RES, M, OX, 0.51 ohm, 2W, J, S-SIZE, SERIES	PCS	1	R320,;	
2016	RES, M, OX, 33K ohm, 2W, J, S-SIZE,;	PCS	1	R112,;	
2017	RES, M, F, 78.2K ohm, 1/4W, F,;	PCS	1	R336,;	
2018	RES, M, OX, 1.5K ohm, 1W, J, S-SIZE,;	PCS	4	R18, R20, R22, R23,;	
2019	CAP, SMD, 0805, 103P, K, 50V, X7R,;	PCS	6	C10, C14, C16, C17, C32, C9,;	
2020	CAP, SMD, 0805, 102, K, 50V, X7R,;	PCS	2	C12, C333,;	
2021	CAP, SMD, 0805, 104, K, 50V, X7R,;	PCS	13	C1, C11, C13, C15, C18, C2, C22, C321, C322, C4, C6, C7, C8,;	
2022	CAP, SMD, 0805, 471, K, 50V, X7R,;	PCS		C324,;	
2023	CAP, SMD, 0805, 472, K, 50V, X7R,;	PCS	1	C663,;	
2024	CAP, SMD, 0805, 105, K, 16V, X7R,;	PCS	3	C19, C20, C3,;	
2025	CAP, SMD, 0805, 271, K, 50V, X7R,;	PCS	2	C31, C33,;	